

1 APPENDIX A: PRIORITY NIAGARA RIVER HAZARDOUS WASTE SITES SUMMARIES

(Projects still not completed are in bold text)

Site Name: USGS Site # : NYSDEC Site #: Program:	Contents /Pollutants of Concern	Remedial Actions Completed	Formal Remedial Compliance and/or Enforcement Actions	Post-Remedial Action O&M Status	Total Remediation Costs to Date	Additional Comments
Occidental Chemical Corp. # 41b-49 #932019 RCRA (State & Federal)	Chlororganics, cell brine sludges, phosphorus sludges	December 1998	NYS Part 373 and EPA RCRA permits issued	Bedrock & Overburden Groundwater Monitoring, Collection & Treatment	Not available at this time	Implementation of the Bedrock & Overburden Stabilization Programs will effectively eliminate future off-site loadings from the Main Plant Site.
Niagara Co. Refuse Disposal # 81 #932026 Federal Superfund	Phenolic resins, plating tank sludges, brine sludge	December 1999; NPL deletion in July 2004	EPA Consent Order and ROD issued	Groundwater Monitoring Program on- going	Fed: \$1,474,100 PRP: \$13,729,000	The site is still monitored by EPA/State and data supports that the remedy is effective and operating as designed.
Dupont Necco Park # 14 #932047 Federal Superfund	Brine sludge, barium salts, chlorinated organic chemicals	September 2007	EPA Consent Orders and ROD issued	Groundwater Monitoring, Collection & Treatment on- going	Fed: \$2,155,000 State: \$141,000 PRP: 42,500,000	Site is in OM&M phase. Ground water pump and treat performing satisfactorily. Upgrades underway to improve pumping efficiency at PW-10. Quarterly and annual reports submitted to USEPA and NYSDEC.
CECOS International / # 78 / #NA RCRA (State & Federal)	Acetone, 2-butanone, benzene, chloroform, toluene, chlorobenzene, methylene chloride, tetrachlorethane	February 1995	EPA RCRA HSWA and NYS Part 373 permits issued	Groundwater Extraction & Treatment; landfill cap maintenance; site access restrictions	Not available at this time.	Corrective Measure Implementation including Aquifer pumping test program to control contaminant migration continues to operate satisfactorily.
Occidental Chemical – Hyde Park # 39 #932021 Federal/State Superfund Co-lead	Brine sludge, organic phosphates, dechlorane, chlorotoluenes, TCP, benzoyl chloride, chlorobenzenes, acid chlorides	June 2003	EPA/NYSDEC/OCC Stipulation and Judgment Approving Settlement Agreement	Overburden Groundwater Monitoring, Collection & Treatment	Fed: \$12,100,000 PRP: \$78,000,000	It is estimated that \$2,000,000/year will be spent on the O&M of the site for approximately the next 30 years.

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102 nd Street # 40, 56, 85, and 94 #932922 & #932031 Federal Superfund	Benzenes, chlorobenzenes, chlorophenols, hexa- chlorocyclohexanes, mercury	December 1998	EPA ROD completed 1990 & Administrative Order issued September 1991	Long-term leachate pump and treat system installed and optimized in March 1999.	Fed/State: \$9,900,000 PRP: \$26,000,000	Long-term leachate pump and treat system operating optimally. It is estimated that future O&M costs to be paid by the PRP will be approximately \$100,000/year.
Bell Aerospace Textron # 5 #932052 RCRA (State and Federal)	Chlorinated solvents, rocket fuel, misc. chemicals	1987	NYS Part 373 and EPA RCRA permits issued	Hydraulic groundwater containment pump and treat system in place	PRP: \$1,898,891 (Capital and O&M) Future O&M estimated \$400,000/year	Recent maintenance and upgrades in 2007 to the treatment system has increased operational efficiency.
OCC- Durez Corp. – Packard Road # 66 #932040 RCRA (State and Federal)	Phenolic wastes	1995	NYS Part 373 and EPA RCRA permits issued	Groundwater pump and treat program; maintenance of landfill cap; site access restrictions	Not available at this time.	EPA and NYSDEC have determined that the existing groundwater pump and treat program is capable of serving as the final groundwater remedy for the site.
Occidental Chemical S-Area # 41A #932019A Federal/State Superfund Co-lead	CaF2 sludge, organic phosphates, chlororganics, sulfides	August 2002	EPA/NYSDEC lead responsibility under 1985 judicial settlement agreement	Operation and maintenance of S-Area landfill cap; groundwater collection and treatment.	Fed/State: \$10,500,000 PRP: \$45,000,000 Future O&M estimated Fed: \$1,000,000; PRP: \$5,000,000 capital and up to \$3,000,000 / year for 30 years.	Continued optimization of the performance of groundwater pump and treat system effective.

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Stauffer Chemical # 255 #932053 NYSDEC Superfund	Carbon tetrachloride, various metallic chlorides, methylene chloride, tetrachloroethylene	December 1995	NYSDEC Consent Order	Bedrock groundwater pump and treat system; soil vapor extraction and dewatering system.	State: \$180,000 PRP: \$5,100,000 State O&M: \$10,000 PRP: \$1,300,000/ye ar for 30 years.	Groundwater treatment system has been modified to include granular activated carbon prior to discharge to the NYPA Forebay.
Solvent Chemical # 251 #932096 NYSDEC Superfund	Chlorobenzenes, zinc	May 2001	ROD issued December 1994; U.S. District Court Judgement issued October 1997.	Bedrock groundwater pump and treat system.	State: \$1,170,000 PRP: \$7,374,000 PRP O&M: \$4,600,000	Continued operation and maintenance of bedrock groundwater pump and treat system.
Vanadium Corp. # 1 #932001 NYSDEC Superfund	Chromium, caustic waste	Projected completion October 2009	ROD issued March 2006: OU#1 - No Further Action OU#2 - No Further Action OU#3 - Consolidation and capping	OU#1 -Containment and storm water control, approved OM&M plan; OU#2- landfill cap, groundwater collection and treat system, approved OM&M plan	State: \$454,000 PRP: \$9,900,000 (OU#1 & OU#2) Projected future OU#3 PRP cost to completion \$12,000,000	Remedial Design for OU#3 is expected to be completed in late 2008 pending execution of a Consent Decree. The Remedial Action is expected to start in early 2009.
Olin Corporation # 58, 59 #932051 State and Federal RCRA	Mercury brine sludges, chlororganics, fly ash	October 1997	NYSDEC Consent Order	Groundwater pump and treat.	Not available at this time.	Remedial system close to meeting optimum effectiveness; recent performance reports indicate system improvements.

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Dupont – Buffalo Ave. # 15-19 #931013 NYSDEC Superfund	Carbon tetrachloride, chloroform, dichloroethylene, methylene chloride, trichloroethylene, tetrachloroethylene, vinyl chloride, PCBs, barium, and other organic and inorganic compounds	January 1992	NYSDEC Consent Order ROD issued January 1990	Groundwater remediation system (pump and treat)	State: \$75,000 PRP: \$ 74,000,000 (includes Gill Creek cleanup) Projected future O&M by PRP: \$1,100,000 / year.	Periodic post monitoring reports indicate effective groundwater pump and treat system. Blast fractured bedrock trenches installed in SW plant area have greatly increased hydraulic containment and pump rates. GWRS system upgrades replaced steam stripper and added therm-ox unit to treat off-gasses to handle additional flow from trenches. Approximately 133,000 pounds of organic contaminants removed from groundwater since startup thru 1 st Quarter 2008 by the GWRS and Olin pumping well.
Buffalo Color Corp. Plant Site # 120, 122 #C915230, C915231, C915232 State and Federal RCRA State Brownfield Program	Aniline, N- methylaniline, N- dimethylaniline, N- diethylaniline, cyanide, methanol, nickel, chromium	IRM pump and treat system installed 12/2007	NYS Part 373 and EPA RCRA permits issued; NYSDEC Consent Orders issued 3/12/2005 and 6/30/2006.	Groundwater pump and treat system operational 12/2007.	Not available at this time.	Draft Remedial Investigation/Feasibility Study completed in March 2008 (revised in August 2008) and is currently under review.
Buffalo Color – Area D # 120-122 #915012 NYSDEC Superfund	Iron oxide sludges containing organics	September 1998	NYSDEC Consent Order	Slurry wall; sediment dredging; landfill cap; groundwater pump & treat system	State: \$200,000 PRP: \$14,000,000	Groundwater pump and treat system operating satisfactorily.

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Bethlehem Steel Corp. # 118 #915009, C915197, C915198, C915199, C915205, C915216, C915217, & C915218 State and Federal RCRA State Brownfield Program	Tar decanter sludge, ammonia still lime, sludge, pickling liquor	C915197 Projected October 2008 C915205 - completed 2006	NYSDEC Consent Order C915197 -Brownfield Clean- up Agreement (BCA) C915198 -BCA C915199 -BCA C915205 - BCA C915216 - Denied entry into BCP C915217 - BCA C915218 - Eligibility Pending	Proposed Groundwater collection and treatment for brownfields redevelopment. C915205 - Protective cover, passive groundwater treatment, Easement	Not available at this time.	915009 - Consists of RCRA regulated portion of property C915197 - Tecumseh Phase I Business Park - IRM Work plan 6/2008, planned implementation 2008. C915198 - Tecumseh Phase II Business Park - RI/AAR Submitted C915199 - Tecumseh Phase III Business Park - Site change - C915217 removed from the site, RI/AAR WP submitted C915205 - Tecumseh Redevelopment, Inc.- Steel winds - Completed C915216 - Steel Winds IA - Denied entry into BCP C915217 - Steel Winds II - RI/AAR submitted C915218 - Tecumseh Phase IA Business Park - Application Pending
River Road (INS Equipment) # 136 #915031 NYSDEC Superfund	Foundry sand, cutting oils, industrial sludges, PCBs	January 2000	NYSDEC Consent Order. ROD issued March 1994	OM&M activities underway.	State: \$546,000 PRP: \$15,000,000	Remedial action completed in January 2000 for the Cherry Farm and River Rd sites. OM&M activities underway. Periodic reports submitted to the NYSDEC.
Niagara Mohawk – Cherry Farm # NA #915063 NYSDEC Superfund	Foundry sand, cutting oils, industrial sludges, PCBs	See Site 915031 above.	ROD issued Feb 1991 Amended ROD Oct 1993	OM&M activities underway.	See Site 915031 above.	See Site 915031 above.
Frontier Chemical - Pendleton # 67 #932043 NYSDEC Superfund	Solvents, oils, acids, dyes, paint wastes, heavy metal sludges, metal salt sludges, pickling liquors	March 1997	NYSDEC ROD issued March 1992; NYSDEC Consent Order	Landfill cap and leachate collection and treatment	State: \$1,430,000 PRP: \$14,120,000 Future O&M costs State: PRP: \$50,000 annually	Long-term O&M includes landfill cap maintenance and pump and treat of leachate from the site.

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Frontier Chemical, Royal Avenue # #932110 EPA and NYSDEC Superfund	Monochlorotoluene, methylene chloride, chloroform, dichlorobenzene, tetrachloroethylene and other organic contaminants	Projected completion date to be determined.	NYSDEC ROD - OU#1 issued March 2006	Remediation on- going	Fed: \$3,690,000 State: \$400,000 PRP: \$3,600,000	Anticipate DEC RI/FS Order for OU#2 with PRP group in fall 2008.
Occidental Chemical – Durez Division, North Tonawanda # 24-37 #932018 NYSDEC Superfund	Phenol tars containing chlorobenzenes and chlorophenols	Plant site:1990 City sewer cleaning:199 2 Inlet/Cove: 1992 &2000	NYSDEC ROD OU#1/2 -Feb 1989; ROD OU#3 - March 1992.	Plant site includes cover system and groundwater control/treatment. Inlet and cove & north lobe removal and containment work is being monitored.	State: \$510,00 PRP: \$39,000,000	In May 2000, additional contaminated sediment from the bottom of the cove were removed. The most recent report (~2006), indicates elevated concentrations of dioxins and furans. A work plan for source investigation and additional sediment removal as needed has been approved. This work was begun in 2008.
Gratwick Riverside Park # 68 #932060 NYSDEC Superfund	Phenolic resins, PCBs	December 2005	NYSDEC ROD- Feb. 1991; Amended ROD - Jan. 1999	Landfill cap and leachate collection and treatment	State: \$2,550,000 PRP: \$5,000,000 Future O&M costs estimated to be \$1,140,000 over 10 years.	The Site was reclassified by DEC from a Class 2 (significant threat) to a Class 4 (Site remediated and in long term OM&M) site in June 2008
Mobile Oil # 141 #915040 & C915201 NYSDEC Brownfield	Tetraethyl lead and lube sludges, spent catalysts, Air floatation unit and gravity oil/water separator sludges	Projected December 2011	NYSDEC Consent Order issued in 1985. NYS Brownfield Cleanup Agreement executed April 3, 2006	Remediation on- going	Not available.	Site segregated into (5) operable units. Remediation of OU- 1 complete to commercial standards via excavation of contaminated fill with no required monitoring. Investigation of OU-2 on going.

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Iroquois Gas – Westwood Pharmaceutical # NA # 915141A & B NYSDEC Superfund	PAHs (Polynuclear Aromatic Hydrocarbons) BTEX (Benzene, Toluene, Ethyl benzene, Xylene), lead, and cyanide	Main plant site in 1997 and Scajaquada Creek sediments in March 1999. 915141A: 1997 915141B: 2001	NYSDEC ROD issued March 1994 for both sites.	915141A: hydraulic control; groundwater pump and treat 915141B: DNAPL extraction	State: \$ 250,000 PRP: \$ 7,000,000	915141A: hydraulic control, and groundwater pump and treat are effective. 915141B: DNAPL from under the creek continues to be collected
Booth Oil # NA #932100 NYSDEC Superfund	Waste oils, PCBs, VOCs, semi-VOCs, and PAHs	November 2004	NYSDEC ROD issued March 1992 and March 1993, ROD amendments in August 2002	Haz waste removed, residual PAH contamination. OM&M plan for site cover maintenance. Deed restrictions in place	State: \$1,318,900 PRP: \$6,000,000	Remedial action completed Nov 1994. Additional remedial work to address gasoline vapor impacts to adjacent home continued through 2005. Previously unknown USTs removed with soil disposal and vapor extraction. Monitoring wells installed to monitor groundwater for gasoline impacts.